

PATENT COOPERATION TREAT

From the INTERNATIONAL SEARCHING AUTHORITY

WOLF GREENFIELD & SACKS, P.C.

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT

Attn. Morris, James H. 600 Atlantic Avenue Boston, Massachusetts 02210 UNITED STATES OF AMERICA	OR THE DECLARATION  (PCT Rule 44.1)
	Date of mailing (day/month/year) 25/02/2004
Applicant's or agent's file reference	
B00662.70056W	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US 03/29533	(day/month/year) 17/09/2003
Applicant	
BETH ISRAEL DEACONESS MEDICAL CENTER, INC	C.
1. X  The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim  When? The time limit for filing such amendments is normal International Search Report; however, for more de  Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35  For more detailed instructions, see the notes on the acco  2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.  3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has been	In the International Application (see Rule 46):  Itally 2 months from the date of transmittal of the Initials, see the notes on the accompanying sheet.  Confirmation  Docketing  Impanying sheet.  In Report will be established and that the declaration under Initials Confirmation Initials Confirmation  Docketing  Impanying sheet.  In Report will be established and that the declaration under Initials Confirmation Initials Confirmation Initials Confirmation  In Report will be established and that the declaration under Initials Confirmation Initials
applicant's request to forward the texts of both the prof	test and the decision thereon to the designated TEOCKETED
no decision has been made yet on the protest, the app	. T 5004
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided completion of the technical preparations for international publica	of withdrawal of the international application, or of the in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 mo	
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bounce.	e demand or in a later election within 19 months from the

Name	and	mailing	address	of the I	nternati	ional Searching	Authority
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Authorized officer

Laure Acquaviva



These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policiation. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PC)	ation of Transmittal of International Search Report (/ISA/220) as well as, where applicable, item 5 below.
B00662.70056	ACTION	, i.e., territorio applicable, i.e., e bellevi.
International application No.	International filing date (day/month/ye	ar) (Earliest) Priority Date (day/month/year)
P.C. 1770 00 10 0 5 0 0	17/00/0003	15/00/0000
PCT/US 03/29533	17/09/2003	17/09/2002
Applicant		
BETH ISRAEL DEACONESS MEDI	CAL CENTER, INC.	
This International Search Report has been	n prepared by this international Searchi	ng Authority and is transmitted to the applicant
according to Article 18. A copy is being tra	ansmitted to the International Bureau.	g Additionly and is danishinged to the applicant
This International Search Report consists	of a total of sheets	
X It is also accompanied by	a copy of each prior art document cited	in this report.
Basis of the report		
a. With regard to the language, the	international search was carried out on ess otherwise indicated under this item.	he basis of the international application in the
anguage in which it was nied, uni	ess otherwise maicated under this item.	
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translati	on of the international application furnished to this
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<ul> <li>b. With regard to any nucleotide an was carried out on the basis of the</li> </ul>		the international application, the international search
contained in the internatio	nal application in written form.	·
filed together with the inte	rnational application in computer readal	le form.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form	
the statement that the sub	sequently furnished written sequence li	sting does not go beyond the disclosure in the
international application a	s filed has been furnished.	
the statement that the info furnished	rmation recorded in computer readable	form is identical to the written sequence listing has been
Turnon-ou		
2. Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lact		
	<b>3</b> (*****	
4. With regard to the title,		
X the text is approved as su	hmitted by the applicant	
	hed by this Authority to read as follows:	
Life text has been establish	ted by this Authority to read as follows.	
E Mith regard to the about		
5. With regard to the abstract,		
the text is approved as su	, , , ,	uthority as it appears in Pay III. The applicant may
the text has been establish within one month from the	date of mailing of this international sea	uthority as it appears in Box III. The applicant may, ch report, submit comments to this Authority.
6. The figure of the drawings to be publi		0
	_	None of the figures
		None of the figures.
because the applicant faile		
because this figure better	characterizes the invention.	

International application No.

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Methods and apparatus for determining dielectric properties such as conductivity, permittivity and/or permeability of a body are provided. An array of resonant coils(910) capable of generating electromagnetic radiation are provided proximate a body(950) to imaged. Properties of the array of coils are in fluenced by the loading effect of the body. More particularly, one or more resonant properties of the coils are perturbed, the perturbation of which may be measured to obtain an indication of the conductivity, permittivity and per meability of the loading body.



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61B5/053

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 01 76475 A (KO HARVEY W ;SMITH DEXTER G (US); UNIV JOHNS HOPKINS (US)) 18 October 2001 (2001-10-18)	1-5,7, 33-36, 61-65, 91-93
Α		6,8-32, 37-60, 66-90, 94-119
	page 5, line 11 -page 10, line 12 page 14, line 2 - line 14; figures 1,1A	
Α	US 5 144 236 A (STRENK LAWRENCE M) 1 September 1992 (1992-09-01) column 3, line 18 -column 5, line 52; figure 3	1,33,61, 91,117

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the international filing date      C* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
13 February 2004	25/02/2004
Name and mailing address of the ISA	Authorized officer
European Palent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Ruff, C

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CICantinu	ation) DOCUMENTS CONSISERED TO BE RELEVANT	7 03 03/29333
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 397 095 B1 (EYUBOGLU B MURAT ET AL) 28 May 2002 (2002-05-28) column 4, line 17 - line 64; figure 1	1,33,61, 91,117
P,A	WO 03 059164 A (ORSAN MEDICAL EQUIPMENT LTD; BEN-ARI SHLOMI (IL); RAPPAPORT ALON () 24 July 2003 (2003-07-24) page 15, line 20 -page 19, line 14; figures 3,4	1,33,61, 91,117
P,A	WO 03 051197 A (HUANG FENG ;SAYLOR CHARLES (US); DUENSING G RANDY (US); MRI DEVICE) 26 June 2003 (2003-06-26) page 7, line 9 -page 8, line 22	1,33,61, 91,117

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ernational Application No

/US 03/29533

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US 514423	5 A	01-09-1992	AU EP JP WO	8497291 0543912 6503731 9203745	A1 T	17-03-1992 02-06-1993 28-04-1994 05-03-1992
US 639709!	B1	28-05-2002	NONE			
WO 030591	54 A	24-07-2003	WO	03059164	A2	24-07-2003
WO 0305119	97 A	26-06-2003	WO US	03051197 2003160622	–	26-06-2003 28-08-2003